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HEWLETT-PACKARD COMPANY
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EXAMINER

BRUCKART, BENJAMIN R

ART UNIT	PAPER NUMBER
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2155

DATE MAILED: 01/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/733,472	Applicant(s) HAINES ET AL.	
	Examiner Benjamin R. Bruckart	Art Unit 2155	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 November 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-27 and 30-44 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3-27 and 30-44 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Detailed Action

Status of Claims:

Claims 1, 3-27, 30-44 are pending in this Office Action.

Claims 1, 14, 16, 23 and 37 are amended.

No new claims have been added.

The 35 U.S.C. 112, first and second paragraph rejection is withdrawn in light of applicant's amendment.

The objection to the specification is withdrawn in light of applicant's amendment to the specification.

Applicant's invention as claimed:

Claims 1, 3-11, 13-18, 22, 37-44 are rejected under 103(a) as being unpatentable by U.S. Patent No. 6,310,692 issued to Fan et al in view of U.S. Patent No. 6,430,711 by Sekizawa.

Regarding claim 1,

The Fan reference teaches

a consumable component replenishment and maintenance assistance system for a centralized network environment (col. 3, lines 56-63), comprising:

a computer network (col. 3, lines 64- col. 4, line 2);

a plurality of computer peripheral devices within the network (col. 3, lines 66-67);

a personal computer within the network and having a user interface usable by a maintainer to maintain operation of the at least one computer peripheral device of the plurality (col. 3, lines 13-20); and

a server within the network and having a consumable component consolidation program (col. 4, lines 9-14; supervisor) operative to monitor the plurality of computer peripheral devices to identify at least a need to replenish a consumable component and/or perform maintenance for

each of the plurality of the computer peripheral devices (col. 3, lines 67; col. 4, lines 15-28), and to notify a maintainer of the identified need by rendering instructions that are sent to the maintainer at the personal computer (col. 3, lines 30-34);

wherein the consolidation program being operative to deliver to the maintainer an e-mail that consolidates the need to replenish the consumable component when a computer peripheral device has the need to replenish the consumable component (col. 4, lines 30-34, 49-62).

The Fan reference does not explicitly state delivering an email consolidating the needs to replenish consumable components when two or more devices are in need.

The Sekizawa reference teaches sending an email consolidating the needs to replenish or maintain two or more devices in need (Sekizawa: col. 4, lines 27-32; col. 8, lines 9-36; col. 9, lines 11-44; col. 30, 40-46; Fig. 35).

The Sekizawa reference further teaches the invention improves efficiency and quality of service (Sekizawa: col. 8, lines 14-32).

Therefore it would have been obvious at the time of the invention to one of ordinary skill in the art to create the system of consumable monitoring system for a computer peripheral device within a centralized network environment as taught by Fan while employing email to notify when two or more devices are in need as taught by Sekizawa in order to improves efficiency and quality of service (Sekizawa: col. 8, lines 14-32).

Claims 3-11, 13 are rejected under the same rationale given above. In the rejections set fourth, the examiner will address the additional limitations and point to the relevant teachings of Fan and Sekizawa.

Regarding claim 3, the system of claim 1 further comprising another personal computer and an electronic communication link signal coupling the another personal computer with an external seller of a consumable component for one of the at least one peripheral devices (col. 4, lines 53-62; Figure 3).

Regarding claim 4, the system of claim 1 further comprising another personal computer, wherein the another personal computer is operative to monitor the at least one computer peripheral device to determine the state of a consumable for each of the at least one computer peripheral devices,

and notify a user via the user interface of a need to replenish one or more consumables (col. 3, lines 13-20; col. 4, lines 15-28).

Regarding claim 5, the system of claim 1, further comprising another personal computer and another centralized server having a consumable re-order program including instructions to send a consumable re-order notification to a consumables purchaser at the another personal computer (Sekizawa: col. 3, lines 10-21; col. 46, lines 18-32).

Regarding claim 6, the system of claim 1 wherein the consumable component comprises a first consumable component (col. 4, lines 20-24), and further comprising a second consumable component unique from the first consumable component (col. 4, lines 20-24), wherein the consolidation program monitors the at least one computer peripheral device to identify when the second consumable component is near a threshold level requiring replenishment and/or maintenance and the consolidation program consolidates the need to replenish and/or perform maintenance on the first and second consumable components (col. 4, lines 15-28).

Regarding claim 7, the system of claim 6 wherein the first consumable component resides on a first peripheral device, and the second consumable component resides on a second peripheral device (col. 4, lines 15-17; for each printer resource; lines 20-24).

Regarding claim 8, the system of claim 6 wherein the first consumable component and the second consumable component reside on a common peripheral device (col. 4, lines 20-24).

Regarding claim 9, the system of claim 6 wherein the server is operative to automatically notify a maintainer of the consolidated need to replenish and/or perform maintenance (col. 4, lines 53-62).

Regarding claim 10, the system of claim 6 wherein the server is operative to automatically notify a purchaser of the consolidated need to replenish and/or perform maintenance (Fan: col. 4, lines 30-34, 49-62; Sekizawa: col. 3, lines 10-21; col. 46, lines 18-32).

Regarding claim 11, the system of claim 6 wherein the consolidation program generates a warning message indicating that the second consumable component is near the threshold level (col. 5, lines 38-53).

Regarding claim 13, the system of claim 1 wherein the consolidation program includes a configurable threshold setting for the consumable component of the peripheral device (col. 4, lines 35-44), wherein a user of the centralized server selectively configures the threshold setting for the consumable component such that the identified need to replenish the consumable component is triggered by the threshold setting (col. 4, lines 35-44, lines 15-29).

Regarding claim 14,

The Fan reference teaches a consumable monitoring system for a computer peripheral device within a centralized network environment (col. 3, lines 56-63), comprising:

a personal computer having a user interface (col. 3, line 66, lines 13-20);

a plurality of computer peripheral devices (Fan: col. 3, lines 66-67), each computer peripheral device including a consumable (col. 3, line 67; col. 4, lines 20-24);

a centralized (col. 3, line 67) server with instructions to send a notification including a message that consolidates the need to order consumables for a select group of computer peripheral devices from among the plurality of computer peripheral devices when two or more from the select group have the need to replenish consumables (col. 4, lines 30-62); and

a computer network interconnecting the personal computer, the plurality of computer peripheral devices, and the centralized server (col. 3, lines 59, lines 65-col. 4, line 2; Figure 3).

The Fan reference does not explicitly state delivering an email consolidating the need to reorder to replenish consumable components when two or more devices are in need.

The Sekizawa reference teaches sending an email consolidating the needs to replenish or maintain two or more devices in need (Sekizawa: col. 4, lines 27-32; col. 8, lines 9-36; col. 9, lines 11-44; col. 30, 40-46; Fig. 35).

The Sekizawa reference further teaches the invention improves efficiency and quality of service (Sekizawa: col. 8, lines 14-32).

Therefore it would have been obvious at the time of the invention to one of ordinary skill in the art to create the system of consumable monitoring system for a computer peripheral device within a centralized network environment as taught by Fan while employing email to notify when two or more devices are in need as taught by Sekizawa in order to improves efficiency and quality of service (Sekizawa: col. 8, lines 14-32).

Claims 15-18, 22 are rejected under the same rationale given above. In the rejections set fourth, the examiner will address the additional limitations and point to the relevant teachings of Fan and Sekizawa.

Regarding claim 15, the consumable order assistance system of claim 14 further comprising an electronic communication link signal coupling the personal computer with a provider of the consumable for the peripheral device (Fan: col. 3, lines 56-63; Figure 3).

Regarding claim 16, the consumable order assistance system of claim 14 wherein the centralized server includes a consumable component consolidation program for monitoring the at least one computer peripheral device to identify a need to replenish a consumable component and/or perform maintenance (Fan: col. 3, lines 67; col. 4, lines 15-28), consolidating the identified need to replenish the consumable component and/or perform maintenance for one or more of the at least one computer peripheral device in the network environment, (Fan: col. 4, lines 15-28) and notifying a user of the consolidated, identified need by rendering instructions that are sent to the user at the personal computer (Fan: col. 4, lines 53-63; Sekizawa: col. 4, lines 27-32; col. 8, lines 9-36; col. 9, lines 11-44; col. 30, 40-46; Fig. 35).

Regarding claim 17, the consumable order assistance system of claim 15 wherein the consumable re-order program automatically initiates an order for consumables in response to identifying a need to replenish a consumable component (Sekizawa: col. 1, lines 30-35).

Regarding claim 18, the consumable order assistance system of claim 14 wherein the electronic communication link comprises an e-mail system within the network environment (Fan: col. 4, lines 53-63), wherein a list of consumables that need replacement (Fan: col. 4, lines 15-28; col. 8, lines 35-38; notification is given of a printers and their deficiencies) are sent to the personal computer via an e-mail message from the centralized server (Fan: col. 4, lines 53-63).

Regarding claim 22, the consumable order assistance system of claim 18 wherein the e-mail system facilitates consumable ordering by a purchaser at the personal computer (Sekizawa: col. 3, lines 10-21; col. 46, lines 18-32).

Regarding claim 37, a method for replenishing consumable components of at least one computer peripheral device within a centralized network (Fan: col. 3, lines 56-58), comprising:

- providing a centralized server within the network communicating with the at least one computer peripheral device among a plurality of computer peripheral devices (Fan: col. 3, lines 64-67);

- identifying a need to replenish a consumable component for each of the at least one computer peripheral components (Fan: col. 4, lines 15-28); and

- consolidating the identified need to replenish the consumable component for one or more of the at least one computer peripheral device in the network (Fan: col. 4, lines 15-28);

- wherein the centralized server includes a consumable re-order program (Fan: col. 4, lines 9-14; supervisor) configured to send a consumable re-order notification to a consumables purchaser at a personal computer (Fan: col. 4, lines 30-62), the notification including a message that consolidates the need to order consumables for a select group of computer peripheral devices from among the plurality of computer peripheral devices when two or more from the select group have the need to replenish consumables (Fan: col. 4, lines 49-62).

- wherein the consolidation program being operative to deliver to the maintainer an e-mail when a computer peripheral device has the need to replenish the consumable component (col. 4, lines 30-34, 49-62).

The Fan reference does not explicitly state delivering an email consolidating the needs to replenish consumable components when two or more devices are in need.

The Sekizawa reference teaches sending an email consolidating the needs to replenish or maintain two or more devices in need (Sekizawa: col. 4, lines 27-32; col. 8, lines 9-36; col. 9, lines 11-44; col. 30, 40-46; Fig. 35).

The Sekizawa reference further teaches the invention improves efficiency and quality of service (Sekizawa: col. 8, lines 14-32).

Therefore it would have been obvious at the time of the invention to one of ordinary skill in the art to create the system of consumable monitoring system for a computer peripheral device within a centralized network environment as taught by Fan while employing email to notify when two or more devices are in need as taught by Sekizawa in order to improves efficiency and quality of service (Sekizawa: col. 8, lines 14-32).

Claims 38-40, 44 are rejected under the same rationale given above. In the rejections set fourth, the examiner will address the additional limitations and point to the relevant teachings of Fan and Sekizawa.

Regarding claim 38, the method of claim 37 further comprising notifying a network user of the consolidated, identified need by rendering and forwarding instructions to the network user (Fan: col. 4, lines 53-63 and lines 30-34).

Regarding claim 39, the method of claim 38 wherein the network user is a maintainer interacting with the network at a personal computer (Fan: col. 3, lines 13-20).

Regarding claim 40, the method of claim 38 wherein the network user is an end user interacting with the network at a personal computer having a device status interface (Fan: col. 3, lines 13-20).

Regarding claim 41, the method of claim 38 wherein the network user is a purchaser of consumables interacting with the network at the personal computer (Sekizawa: col. 3, lines 10-21; col. 46, lines 18-32).

Regarding claim 42, the method of claim 37 wherein identifying comprises comparing a state of a consumable component with a predefined state (Fan: col. 4, lines 15-28), and when the compared identified state corresponds with the predefined state (Fan: col. 4, lines 35-44), generating an order request for the consumable for submission to a provider of the consumable via a communication link (Sekizawa: col. 3, lines 10-21; col. 46, lines 18-32).

Regarding claim 43, the method of claim 42 wherein the communication link comprises the Internet (Sikizawa: col. 3, lines 60-67).

Regarding claim 44, the method of claim 37 wherein identifying a need comprises receiving a warning notification from a computer peripheral device that the computer peripheral device is down or is about to go down (Fan: col. 4, lines 53-63; col. 6, lines 30-35).

Claims 23-27, 30-33, 35-36 are rejected under 103(a) as being unpatentable by U.S. Patent No. 6,310,692 issued to Fan et al in view of U.S. Patent No. 6,430,711 by Sekizawa in further view of U.S. Patent Publication 2001/0034658 by Silva et al.

Regarding claim 23,

The Fan reference teaches a computer-implemented system which implements a program in which consumable components of computer peripheral devices in a centralized network system are replenished (Fan: col. 4, lines 15-28), the system comprising:

a monitoring system which identifies a need to replenish one or more consumable components for any one of a plurality of unique computer peripheral devices within the network system (Fan: col. 4, lines 15-28); and

a notification system which notifies a user of the identified need to replenish components and/or perform maintenance (Fan: col. 4, lines 30-34);

a server (Fan: col. 4, lines 9-14) having a consumable consolidation program (Fan: col. 4, lines 9-14; supervisor) for monitoring at least one computer peripheral device to identify a need to replenish consumables for the at least one computer peripheral device in the network

environment (Fan: col. 4, lines 15-34), and notifying a maintainer of the consolidated, identified need by rendering instructions that are sent to the maintainer at the personal computer by forwarding an email (Fan: col. 4, lines 49-62), and the instructions including a message has the need to replenish consumables (Fan: col. 4, lines 30-62).

The Fan reference does not explicitly state delivering an email consolidating the needs to replenish consumable components when two or more devices are in need.

The Sekizawa reference teaches sending an email consolidating the needs to replenish or maintain two or more devices in need (Sekizawa: col. 4, lines 27-32; col. 8, lines 9-36; col. 9, lines 11-44; col. 30, 40-46; Fig. 35).

The Sekizawa reference further teaches the invention improves efficiency and quality of service (Sekizawa: col. 8, lines 14-32).

The Fan and Sekizawa references do not teach including a hot link in the email.

The Silva reference teaches sending an e-mail including a hot link to a web site of consumable reseller information (Silva: paragraph 28).

The Silva reference further teaches overcoming the time-consuming task of filling a shopping cart by the single action of clicking the link and automatically filling the shopping cart overcoming fewer sales (paragraphs 4 and 5).

Therefore it would have been obvious at the time of the invention to one of ordinary skill in the art to create the system of consumable monitoring system for a computer peripheral device within a centralized network environment as taught by Fan while employing consolidated email with re-ordering as taught by Sekizawa in order to increase efficiency and increase service quality with email a hot link of a website of consumable reseller information as taught by Silva in order to reduce the time necessary to shop and increase sales (paragraphs 4 and 5).

Claims 24-36 are rejected under the same rationale given above. In the rejections set fourth, the examiner will address the additional limitations and point to the relevant teachings of Sekizawa, Fan et al, Silva et al.

Regarding claim 24, the computer-implemented system of claim 23 wherein the monitoring system comprises a server, a peripheral device having one or more consumable components, and a bi-directional communication link (Fan: col. 3, lines 59- col. 4, line 8; Figure 3), wherein the

server polls or sets up the peripheral device to perform an internal check and notifies the server when a need is determined to replenish one or more consumable components and/or perform maintenance (Fan: col. 4, lines 15-28).

Regarding claim 25, the computer-implemented system of claim 23 wherein the notification system comprises a server, at least one client PC, and a communication link provided between the server and the at least one client PC (Fan: col. 3, lines 59- col. 4, line 8; Figure 3), wherein the server generates and forwards a notification to a user at one of the at least one client PC (Fan: col. 4, lines 53-63).

Regarding claim 26, the computer-implemented system of claim 23 wherein the consumable order placement system is resident on a central server within a network environment having a plurality of PCs (Fan: col. 3, lines 65-67).

Regarding claim 27, the computer-implemented system of claim 23 wherein the consumable order placement system is resident on a PC within a network environment having a central server (col. 3, lines 13-20).

Regarding claim 30, the computer-implemented system of claim 23 wherein the email comprises a notification that a printer needs replenishment of at least one consumable and/or maintenance (Fan: col. 4, lines 53-63).

Regarding claim 31, the computer implemented system of claim 23 wherein the email comprises a notification (Fan: col. 4, lines 53-63) in the form of an itemized list that a plurality of computer peripheral devices each needs replenishment of at least one consumable and/or maintenance (Fan: col. 4, lines 15-28; col. 8, lines 35-38; notification is given of a printers and their deficiencies).

Regarding claim 32, the computer-implemented system of claim 23 wherein the consumable consolidation program notifies the maintainer of the consolidated, identified need for a single

computer peripheral device by consolidating the need for a plurality of unique consumable components (Fan: col. 4, lines 15-28, 53-63) and notifying the maintainer of the consolidated need for the single computer peripheral device (Fan: col. 4, lines 53-63).

Regarding claim 33, the computer-implemented system of claim 23 wherein the server comprises a centralized server communicating with the at least one computer peripheral device (Fan: col. 3, lines 64-67; Figure 3) and further operative to consolidate the identified need to replenish one or more consumable components and/or perform maintenance for one or more of the computer peripheral devices (Fan: col. 4, lines 15-24).

Regarding claim 35, the computer-implemented system of claim 23 wherein the notification system comprises a Legacy computer peripheral device and a centralized server provided within the network, wherein the centralized server periodically polls the Legacy device to obtain a status of the Legacy device relating to status of a consumable component and/or a need to perform maintenance on the Legacy device (Fan: col. 4, lines 15-24).

Regarding claim 36, the computer-implemented system of claim 23 wherein the consumable order placement system comprises a centralized server provided within the network and communicating with a provider of consumables via the Internet (Sikizawa: col. 3, lines 60-67).

Claim 12 is rejected under 103(a) as being unpatentable by U.S. Patent No. 6,310,692 issued to Fan et al in view of U.S. Patent No. 6,430,711 by Sekizawa in further view of U.S. Patent No. 6,490,052 by Yanagidaira.

Regarding claim 12,

The Fan and Sekizawa references teach a consumable component replenishment and maintenance assistance system for a centralized network environment (Fan: col. 3, lines 56-63).

The Fan and Sekizawa references do not explicitly state the centralized server comprises an integrated web server operative to manage network peripheral devices.

The Yanagidaira reference teaches a centralized server comprises an integrated web server operative to manage network peripheral devices (Yanagidaira: col. 2, lines 14-23)

The Yanagidaira reference further teaches the printer controller can easily perform the operating state monitoring, check and instruction of the printer from a client (Yanagidaira: col. 2, lines 9-14; col. 1, lines 34-39)

Therefore it would have been obvious at the time of the invention to one of ordinary skill in the art to create the system of consumable component replenishment and maintenance assistance system for a centralized network environment as taught by Fan and Sekizawa while employing an integrated web server operative to manage network peripheral devices as taught by Yanagidaira in order to easily identify a printer's operating state by a client (col. 1, lines 28-33).

Claims 19-21 are rejected under 103(a) as being unpatentable by U.S. Patent No. 6,310,692 issued to Fan et al in view of U.S. Patent No. 6,430,711 by Sekizawa in further view of U.S. Patent Publication 2001/0034658 by Silva et al.

Regarding claim 19,

The Fan and Sekiazawa references teach the consumable order assistance system of claim 18.

The Fan and Sekizawa references do not explicitly state an e-mail message includes a hot link to a web site of consumable reseller information.

The Silva reference teaches sending an e-mail including a hot link to a web site of consumable reseller information (Silva: paragraph 28).

The Silva reference further teaches overcoming the time-consuming task of filling a shopping cart by the single action of clicking the link and automatically filling the shopping cart overcoming fewer sales (paragraphs 4 and 5).

Therefore it would have been obvious at the time of the invention to one of ordinary skill in the art to create the system of consumable monitoring system for a computer peripheral device within a centralized network environment as taught by Fan and Sekizawa while employing email a hot link of a website of consumable reseller information as taught by Silva in order to reduce the time necessary to shop and increase sales (paragraphs 4 and 5).

Claims 20-21 are rejected under the same rationale given above. In the rejections set forth, the examiner will address the additional limitations and point to the relevant teachings of Sekizawa, Fan et al, Silva et al.

Regarding claim 20, the consumable order assistance system of claim 19 wherein the hot link is to a web site (Silva: paragraph 28) that is configured to work with an internal customer order system (Sekizawa: col. 3, lines 10-21; col. 46, lines 18-32).

Regarding claim 21, the consumable order assistance system of claim 19 wherein the hot link is to a web site that is configured to work with an external web site including a list of providers of the consumable (Silva: paragraphs 9 and 28).

Claim 34 is rejected under 103(a) as being unpatentable by U.S. Patent No. 6,310,692 issued to Fan et al in view of U.S. Patent No. 6,430,711 by Sekizawa in further view of U.S. Patent Publication 2001/0034658 by Silva et al in further view of U.S. Patent No. 6,490,052 by Yanagidaira.

Regarding claim 34,

The Fan, Sekizawa, and Silva references teach a computer-implemented system which implements a program in which consumable components of computer peripheral devices in a centralized network system are replenished.

The Fan, Sekizawa, and Silva references do not explicitly teach the notification system comprises an embedded web server within a computer peripheral device and a centralized server communicating with the computer peripheral device.

The Yanagidaira reference teaches the notification system comprises an embedded web server within a computer peripheral device and a centralized server communicating with the computer peripheral device (Yanagidaira: col. 2, lines 14-23).

The Yanagidaira reference further teaches the printer controller can easily perform the operating state monitoring, check and instruction of the printer from a client (Yanagidaira: col. 2, lines 9-14; col. 1, lines 34-39)

Therefore it would have been obvious at the time of the invention to one of ordinary skill in the art to create the system which implements a program in which consumable components of computer peripheral devices in a centralized network system are replenished as taught by Fan, Sekizawa, and Silva while employing an embedded web server within a computer peripheral device and a centralized server communicating with the computer peripheral device as taught by Yanagidaira in order to easily identify a printer's operating state by a client (col. 1, lines 28-33).

REMARKS

Applicant's amendment has clarified the issue with the consolidated email when "two or more" by designating two or more devices of the group have the needs and thus overcome the 35 U.S.C. 112 rejections. Applicant has modified the language to clarify and has cited remarks further reinforcing the idea.

Prior Art

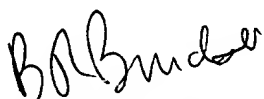
U.S. Patent Publication 2002/0101604 by Mima et al teaches integrated printers for processing jobs and communications between their agents to share status.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin R. Bruckart whose telephone number is (571) 272-3982. The examiner can normally be reached on 8:00-5:30PM with every other Friday off.

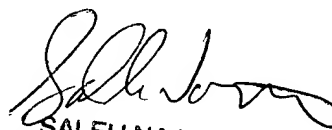
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on (571) 272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Benjamin R Bruckart
Examiner
Art Unit 2155

brb



SALEH NAJJAR
SUPERVISORY PATENT EXAMINER